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United States Department of Agriculture.

WASHINGTON, *August 31, 1917.*

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1917.]

HOW TO SECURE PUBLICATIONS.

☞Send No Remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, including those with price named, except the Journal of Agricultural Research, Experiment Station Record, Service and Regulatory Announcements, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply of the publications listed below is exhausted, those publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

Remittances should be made to the Superintendent of Public Documents by coupons, postal money order, express order, or New York draft. Money inclosed in letter is sent at sender's risk.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Classification of American Upland Cotton. By D. E. Earles, Specialist in Cotton Classing, and Fred Taylor, Cotton Technologist. Pp. 28, figs. 15. Contribution from the Office of Markets and Rural Organization. July, 1917. **(Farmers' Bulletin 802.)**

Suitable for cotton growers.

Organization, Financing, and Administration of Drainage Districts. By H. S. Yohe, Expert on Drainage Organization. Pp. 37. Contribution from the Office of Public Roads and Rural Engineering. June, 1917. **(Farmers' Bulletin 815.)**

Suitable for drainage districts.

How to Select Foods. (3) Foods Rich in Protein. By Caroline L. Hunt and Helen W. Atwater, Scientific Assistants, Office of Home Economics. Pp. 19, figs. 2. Contribution from the States Relations Service. July, 1917. **(Farmers' Bulletin 824.)**

For general distribution.

The Boll-Weevil Problem, with Special Reference to Means of Reducing Damage. By W. D. Hunter, In Charge of Southern Field Crop Insect Investigations. Pp. 40, figs. 6. Contribution from the Bureau of Entomology. August, 1917. **(Farmers' Bulletin 848.)**

Suitable for cotton growers in the boll-weevil districts.

Home Uses for Muscadine Grapes. By Charles Dearing, Scientific Assistant, Office of Horticultural and Pomological Investigations. Pp. 23, figs. 4. Contribution from the Bureau of Plant Industry. August, 1917. **(Farmers' Bulletin 859.)**

For general distribution.

Utilization of Farm Wastes in Feeding Live Stock. By S. H. Ray, Animal Husbandry Division. Pp. 12. Contribution from the Bureau of Animal Industry. August, 1917. **(Farmers' Bulletin 873.)**

Of special interest to those engaged in the feeding of live stock.

Home Storage of Vegetables. By James H. Beattie, Scientific Assistant, Office of Horticultural and Pomological Investigations. Pp. 22, figs. 20. Contribution from the Bureau of Plant Industry. August, 1917. **(Farmers' Bulletin 879.)**

Suitable for general distribution.

Preservation of Vegetables by Fermentation and Salting. By L. A. Round, Bacteriologist, Bureau of Chemistry, and H. L. Lang, Scientific Assistant, Office of Home Economics. Pp. 15, fig. 1. Contribution from the States Relations Service and Bureau of Chemistry. August, 1917. **(Farmers' Bulletin 881.)**

For general distribution.

Wheat Growing in the Southeastern States. By Clyde E. Leighty, Agronomist in Charge of Eastern Wheat Investigations. Pp. 14. Contribution from the Bureau of Plant Industry. August, 1917. **(Farmers' Bulletin 885.)**

For general distribution.

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

The Genus Calosoma, Including Studies of Seasonal Histories, Habits, and Economic Importance of American Species North of Mexico and Several Introduced Species. By A. F. Burgess, In Charge of Gipsy Moth and Brown-Tail Moth Investigations, and C. W. Collins, Entomological Assistant. Pp. 124, pls. 9, figs. 5. Contribution from the Bureau of Entomology. (Professional Paper.) July 25, 1917. **(Department Bulletin 417.)** Price, 20 cents.

A First-Year Course in Home Economics for Southern Agricultural Schools. By Louise Stanley, Professor of Home Economics, University of Missouri. Pp. 58, figs. 2. Contribution from the States Relations Service. (Professional Paper.) July 27, 1917. **(Department Bulletin 540.)** Price, 10 cents.

This bulletin has been prepared in cooperation between the author and C. H. Lane, chief specialist in Agricultural Education, as well as specialist of the Office of Home Economics, States Relations Service. It is designed to aid teachers in presenting a course of study in home economics which will connect such instruction and actual home experiences.

The Pollination of the Mango. By Wilson Popenoe, Agricultural Explorer, Office of Foreign Seed and Plant Introduction. Pp. 20, pls. 4, figs. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) August 11, 1917. **(Department Bulletin 542.)** Price, 5 cents.

Control of Peach Bacterial Spot in Southern Orchards. By John W. Roberts, Pathologist, Fruit-Disease Investigations. Pp. 7, pl. 1. Contribution from the Bureau of Plant Industry. 1917. **(Department Bulletin 543.)** Price, 5 cents.

This bulletin is of interest to peach growers in the eastern half of the United States and particularly those of the more southerly parts of this section. It is also of interest to plant pathologists.

Control of the Grape-Berry Moth in the Erie-Chautauqua Grape Belt. By Dwight Isely, Scientific Assistant, Deciduous Fruit Insect Investigations. Pp. 44, pls. 6, figs. 9. Contribution from the Bureau of Entomology. August 9, 1917. **(Department Bulletin 550.)** Price, 10 cents.

This bulletin will be of interest to grape raisers in New York, Pennsylvania, Michigan and Ohio.

The Chicken Mite: Its Life History and Habits. By H. P. Wood, Entomological Assistant, Insects Affecting Health of Animals, Bureau of Entomology. Pp. 14, pls. 1, figs. 2. Contribution from the Bureau of Entomology. August 10, 1917. **(Department Bulletin 553.)** Price, 5 cents.

Marketing Grain at Country Points. By George Livingston and K. B. Seeds, Specialists in Grain Marketing. Pp. 45, figs. 3. Contribution from the Office of Markets and Rural Organization. July 28, 1917. **(Department Bulletin 558.)** Price, 5 cents.

This bulletin should be of interest to producers, shippers, dealers, and consumers of grain and grain products throughout the United States.

The Presence of Arsenic in Hops. By W. W. Stockberger, Physiologist in charge of Drug-Plant and Poisonous-Plant Investigations, Bureau of Plant Industry, and W. D. Collins, Food Investigation, Chemist, Bureau of Chemistry. Pp. 7. Joint contribution from the Bureau of Plant Industry and Bureau of Chemistry. August 8, 1917. **(Department Bulletin 568.)** Price, 5 cents.

This bulletin shows the sources of arsenic in certain samples of dried hops.

The By-Products of Rice Milling. By J. B. Reed, Assistant Chemist, Miscellaneous Laboratory, and F. W. Liepsner, Chemist in charge New Orleans Food and Drug Inspection Laboratory. Pp. 16, fig. 1. Contribution from the Bureau of Chemistry. August 11, 1917. **(Department Bulletin 570.)** Price, 5 cents.

The Sheep Industry on the Minidoka Reclamation Project. By E. F. Rinehart, Agriculturist, Demonstrations on Reclamation Projects, Bureau of Plant Industry. Pp. 28, fig. 7. Contribution from the Bureau of Plant Industry. August 4, 1917. **(Department Bulletin 573.)** Price, 5 cents.

The suggestions made in this bulletin, while based primarily on the results of observations on the Minidoka Reclamation Project, are applicable to several other irrigation projects in the northwestern United States having similar climatic and agricultural conditions.

MISCELLANEOUS.

Rules and Regulations for Carrying out the Provisions of the Insecticide Act of 1910. Pp. 15. August 24, 1917. **(Circular 34, Office of Secretary.)** Second revision. Price, 5 cents.

Food Needs for 1918. Agricultural Program for the Period Beginning with the Autumn of 1917. Pp. 14. August 16, 1917. **(Circular 75, Office of Secretary.)** Price, 5 cents.

The Litchi in Hawaii. By J. E. Higgins, Horticulturist. Pp. 21, pls. 5. July 27, 1917. **(Bulletin No. 44, Hawaii Agricultural Experiment Station.)** Price, 10 cents.

Directory of Officials and Organizations Concerned with the Protection of Birds and Game, 1917. Pp. 17. August 3, 1917. **(Doc. 108, Bureau of Biological Survey.)** Price, 5 cents.

Distribution and Utilization of the Garden Surplus. Pp. 10. August 24, 1917. **(Document No. 6, Bureau of Markets.)**

Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Revised to July 15, 1917. Pp. 56. States Relations Service. August 25, 1917. Price, 5 cents.

REPORT.

Report of the Guam Agricultural Experiment Station, 1916. Pp. 58, pls. 10, figs. 5. Price, 10 cents.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 10, No. 6. August 6, 1917. Contents: Chemical Studies in Making Alfalfa Silage. (iz Kans.–8.) By C. O. Swanson and E. L. Tague.—Studies on Oat Breeding–V: The F_1 and F_2 Generations of a Cross Between a Naked and a Hulled Oat. (jd Me–11.) By Jacob Zinn and Frank M. Surface.—Two New Cambium Miners (Diptera). (je K–55.) By Charles T. Greene. Pp. 275–318, pls. 10. Price, 20 cents.

Same, Vol. 10, No. 7. August 13, 1917. Contents: Toughness of Bituminous Aggregates. (jf D.–13.) By Charles S. Reeve and Richard H. Lewis.—Origin of Alkali. (jg Utah–.) By Robert Stewart and William Peterson.—Effect of Paraffin on the Accumulation of Ammonia and Nitrates in the Soil. (ji Kans.–9.) By P. L. Gainey.—Volatility of Organic Compounds as an Index of the Toxicity of Their Vapors to Insects. (jk Minn.–7.) By William Moore. Pp. 318–371, pls. 2, figs. 7. Price, 15 cents.

Same, Vol. 10, No. 8. August 20, 1917. Contents: The Cyclamen Mite. (jl Oreg.–2.) By G. F. Moznette.—Relation of Movement of Water in a Soil to Its Hygroscopicity and Initial Moistness. (jm Minn.–18.) By Frederick J. Alway and Guy R. McDole. Pp. 373–428, pls. 2, figs. 8. Price, 15 cents.

☞NOTE.—Beginning with volume 5 the Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year, 52 numbers.

Experiment Station Record. Vol. 37, No. 1. July, 1917. E. W. Allen, Ph. D., Editor. Pp. 1–100. Price, 15 cents.

Same, Vol. 37, No. 2. August, 1917. Pp. 101–200. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

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The Monthly Crop Report, Vol. 3, No. 8. August, 1917. Pp. 69–80. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yields, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only,* at prices noted.

Bureau of Animal Industry. No. 122. June, 1917. Pp. 61–79. August 13, 1917. Price, 5 cents.

Insecticide and Fungicide Board. No. 16. Pp. 227–294. August 8, 1917. Price, 5 cents.

Federal Horticultural Board. No. 41. June, 1917. Pp. 57–77. August 2, 1917. Price, 5 cents.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Barbour County, Alabama. By Howard C. Smith, of the U. S. Department of Agriculture, and N. Eric Bell and J. F. Stroud, of the Alabama Department of Agriculture and Industries. Pp. 50, fig. 1, map. **(From F. O. Soils, 1914.)** Price, 15 cents.

Soil Survey of the Healdsburg Area, California. By E. B. Watson, of the U. S. Department of Agriculture, and Walter C. Dean, C. J. Zinn, and R. L. Pendleton, of the University of California. Pp. 59, pls. 5, fig. 1. Map. **(From F. O. Soils, 1915.)** Price, 15 cents.

Soil Survey of Cumberland County, Me. By Cornelius Van Duyne, In Charge, and M. W. Beck. Pp. 92. Map. **(From F. O. Soils, 1915.)** Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 45, No. 5. May, 1917. Pp. 203–266, charts 9, figs. 20. Price, 25 cents.

Special articles: Solar and sky radiation during May, 1917. By H. H. Kimball.—City smoke and daylight illumination intensities. By H. H. Kimball and A. H. Thiessen.—On horizontal halos. By Y. Tsuiji.—Solar halo at Vicksburg, Miss., April 24, 1917. By W. E. Barron.—Halo phenomena, April 8, 1917, at York, N. Y.—Summer types of rainfall in the upper Pecos Valley. By C. Hallenbeck.—Showers of organic matter. By W. L. McAtee.—Records at the Abbe Meteorological Observatory compared with those at the Government building, Cincinnati. By W. C. Devereaux.—Winter indoor aridity in Topeka, Kans. By S. D. Flora.—Preparation of precipitation charts. By W. G. Reed and J. B. Kincer.—New instruments for oceanographical research. Supplement note.—Hail squall of May 1, 1917, and accompanying weather at Baltimore, Md. By L. K. Hirshberg.—Photographs of the Antler, N. Dak., tornado of August 20, 1911. By H. E. Simpson.—Some researches in the Far Eastern seasonal correlations. (Second note.) By T. Okada.—Forecasts and warnings for May, 1917. By H. C. Frankenfield.—Rivers and floods during May, 1917. By A. J. Henry.—Great Lakes level during May, 1917.

Climatological Data for the United States, by sections. Vol. 4, No. 4. April, 1917. Pp. 117, maps 2. Price, 35 cents. $4 a year.

Monthly Weather Review. (For sale only.) Supplement No. 7. Aerology No. 3. August 22, 1917. Pp. 51, figs. 4. Price, 25 cents.

Contents: Free-Air Data at Drexel Aerological Station, April, May, and June, 1916. By William R. Blair and others. Washington, 1917.

National Weather and Crop Bulletin, Nos. 21, 22, 23, 24, August, 1917, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief, Division of Publications.

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1917